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— Margaret Hollingsworth, *Editor*

**Mano** Two women. While I struggle from being a camera buff, my appreciation for the instantaneous, easy-to-share digital photography runs deep. Digital images shared over the Internet have broken down the information barrier between people around the globe ... A digital camera is my best friend. It is a portal for the rest of the world to see through my eyes, in a level not possible with traditional film photography (television). Thus, digital cameras are new tools of choice for makers of the world that much smaller.

Photocentric reality is a product of interaction between film and digital cameras, both from their separate and their combined use. The quality of film for high quality photography is still unsurpassed, unless you plan on going up \$2,000 for a body and lenses that are not used, but there are compromises. Digital processing of photos before saving them, and/or printer manipulation will be sending the birthday checks long on their faces every day. That's where digital steps in with all its conveniences, and where the uses of film versus digital become more apparent for the typical person interested in photography. Digital photography is revolutionizing the field, no doubt. The continuous improvement of the technology has made it more affordable, compelled manufacturers to start adding CCDs everywhere from PBAs to cell phones, and video watches, and empowered a host of amateurs and budding professionals of all creeds.



This month, in addition to feedback on the recent fall on **shinings** you take your **goggles** on vacation with you or if you prefer to explore, drop us a line at [journal@bluecanon.com](mailto:journal@bluecanon.com). To mark the one year anniversary of Ball Inc.'s premier awards, the winner will receive the Ultimate Golf Pro Press (the design is a full 100% blue line design), a high end, pro-press scanner and PC, two colour copier with PC, his equipment, two extra sets of cartridges (black and colour), a 3 in 1 USB 2.0 cable, and a pack of 10 Premiums to help paper the doll-like, new cover.



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Journal of Management Inquiry 22(1)

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**JULY** **August 1999**

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© 2004 Blackwell Publishing Ltd *Journal of Internal Medicine* 255: 103–110

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1. **Introduction**

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Ultimate notebook meets virtual office

In our search for the perfect combination of size and performance, we came up with the X-Note series – notebooks that make no compromises. Starting with an Intel Centrino processor, we added one of the brightest LCD screens on the market, a 10-hour extended life battery\* and a Quad Band wireless antenna, all packed into an ultra slim titanium and carbon fibre package that weighs a mere 2.4 kg.



Figure 1. (a) Cross-sections of the 100- $\mu\text{m}$  thick films and (b) the 100- $\mu\text{m}$  thick films after annealing at 150°C for 1 h.

Apple, the Mac, the Internet, and more at [www.apple.com](http://www.apple.com).  
 Apple, the Mac, the Internet, and more at [www.apple.com](http://www.apple.com).

It can't make your subject's nose look smaller or transform mirrors, but Hewlett-Packard ([www.hp.ca](http://www.hp.ca)) says its new S1 MP Photosmart R707P digital camera can correct minor flaws. Its red-eye, skin and body tools include the Photo Advisor, which tells you how to improve effects. Panorama mode, for lining up a series of shots and stitching them together into one image, and Adaptive Lighting Technology for adjusting high-contrast photos. The R707P has a 2.5-inch LCD, 10 optical and 69 digital zooms, 32 MB internal memory, an SD/MMC memory card slot, and supports Cool 2.2 and PictureEdge technologies. The R707P has an estimated street price of \$450. An optional R series camera dock—for recharging batteries and connecting to a PC or TV



HP Photosmart R707P

Newfoundlanders rejoice! While residents of our remotest province are prohibited from dining and driving, they can use hands-free cars, and French company Parrot ([www.parrot.fr](http://www.parrot.fr)), is introducing a trio of kits in Canada this summer. Using Bluetooth wireless and voice-recognition technologies, the kits allow drivers to make calls without touching their Bluetooth-enabled cell phones. Instead of using a headset, users talk into a microphone mounted on the dash or under the rearview mirror and listen via the car's speakers.

The first three kits available in Canada will be the CX 3500, 3000, and 3500—the latter two of which incorporate GPS receivers. Debuting later this year will be the DriveBlue kit ([parrot.ca](http://parrot.ca)), which plugs into the cigarette lighter, requiring no installation. Canadian pricing has not been announced, but some Canadian dealers are listed on Parrot's Web site.



Parrot DriveBlue



Despite the fact that peer-to-peer music swapping is currently legal in Canada, Napster seems to be banking on that changing. It has announced plans to launch a "localized version" of its Napster 2.0 ([www.napster.com](http://www.napster.com)) digital music service that will include "Canadian specific radio stations, promotions, and content from domestic acts." Users pay a monthly fee (\$3.99) or buy tracks or full albums (prices vary). Like Parrot's kits, a Canadian download service that debuted last fall, Napster 2.0 is limited only, so the Mac crowd will have to hope the folks at Apple plan to expand their iTunes service

before it celebrates its next birthday.

Napster 2.0



Tired of the dealing with cord clutter while you're on the road? Well, Logitech ([www.logitech.com](http://www.logitech.com)) is introducing laptop users with its latest innovation: a notebook mouse that contains its own cord. The mouse's thin cable retracts into a track in the base of the mouse, with the USB connector snapping into the base, protecting the optical sensor. Unlike wireless laptop mice, the Notebook Optical Mouse Plus doesn't need recharging or fresh batteries. It has a suggested price of \$44.\*

Logitech Notebook Optical Mouse Plus

Attention wirelessers with small pockets: Mobile Edge ([www.mobileedge.com](http://www.mobileedge.com)) has announced a wireless signal detector that it claims is half the size of competing products currently available. Of course, you don't have to be a nomadic hacker looking for unsecured networks to find such a device handy. It is designed for business travelers who want to determine if they are within range of a WiFi hotspot—in public areas, convention centers, or airports, for example—before booting up their laptop. Mobile Edge says the locator is small enough to attach to a keychain. It can detect the presence of 802.11b and 802.11g networks and eliminate false readings caused by interference from 2.4 GHz devices, such as Bluetooth products, microwave ovens, and cordless phones. The WiFi Signal Locator will be available in June from retailers for \$40.\*

\* Compared from USB20.

Continued on page 18

WiFi Signal Locator

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# Small is big

*Portable players, games from Nintendo, Sony, and Nokia makes splash at E3 2004*

The 12th annual Electronic Entertainment Expo (E3), where the free + shorts came in three sizes, large, extra-large, and videogame journalist. The biggest spectacle in electronic entertainment in all its forms was held, as it is every year, for three days at the Los Angeles Convention Center. This year's event ran from May 12 to 14.

Walking onto the show floor on the first day, the gaming industry and its assorted bloggers and hangers-on checked their sanity at the door and were hit in the face with a wall of light and sound. Area tents had looked up fast and flights into the city were hard to come by. Taxi drivers made a killing (and tacked on a little extra if they pulled the classic, three lifts in a row move on hapless conventioners).

Videogame hardware and software makers saved their biggest announcements for the show floor and the various press conferences, briefings, and events that mark the days leading up to the expo.

The tenth year after E3's humble beginnings, highlighted by Entertainment Software Association president Doug Lowmire in his annual welcoming address, looked to be the year of the sequel: *Halo 2*, *Half-Life 2*, *Doom 3*, etc. were expected to be the

biggest news — much like last year's show. The term "rock overlord" was tossed around a lot, exploring the current lack of new intellectual properties for games. With game development budgets rising, those of blockbuster films, even the big studios with cash to spare are unwilling to take a chance on an unproven game concept, choosing instead to create games based on movie properties or sequels to games that have already proved popular.

If nothing else, E3 2004 proved that cynical videogame journalists and writers can still be whipped into a liberal frenzy with the right motivation — the unveiling of Nintendo's DS [Dual Screen] system, for example.

The big story coming out of the E3 2004 was undoubtedly mobile gaming. Both the PlayStation Portable (PSP), Sony's first attempt at handheld gam-

ing introduced at last year's show, and Nintendo's newest portable, the controversial Nintendo DS systems, were playable on the show floor. Nokia's unveilings were less dramatic, having announced the rescaling of its N-Gage game deck a month before the show.

## Nintendo DS

The Nintendo DS's [Dual Screens] most telling feature — as listed in the title — is its two distinct screens. However, there's more to the system than immediately meets the eye.

The latest generation Nintendo handheld is set for release before the end of the year in Japan and North America. The DS will face competition from Sony's PSP if the current generation console landscape is any indicator; the competition will be hard fought.

Each of the DS's screens is approximately the size of the existing Game Boy Advance screen [3 in.] and along with the standard directional pad, four action, and two shoulder buttons, the DS features touch-screen technology on the bottom screen, similar to a PDA, though seemingly thicker and more resilient.

The other major innovation for the DS is the integration of WiFi connectivity, though the specific standard has yet to be confirmed.

The system also features a proprietary local wireless connection standard with a range of about 30 m [100 ft.] and voice recognition, though this feature won't be on display as a result of the intense noise associated with E3, according to a Nintendo representative.

Hands on time with *Herndon Prime: Hunter* in local multiplayer mode showed one of the potential uses for the touch screen technology. From a first-person perspective, gamers control the view by dragging a stylus around the screen. Functions like weapon switching are accomplished by tapping the appropriate screen area. Similarly, tapping on a target fires weapons.





Also on display were various tech demos and potential launch titles, including Super Mario Galaxy, Mario Kart DS, and Pac-Man Pin, an interesting game whose gameplay starts off by drawing Pac-Man and then cues lines to direct him toward ghosts on screen.

DS games will be available on cartridges — in classic Nintendo style — each of which can link up to a pool of information. Solid snafu for Game Boy Advance (GBA) games too, in that a second cartridge slot for GBA cartridges makes the DS fully backwards compatible.

## PlayStation Portable

Sony's approach to handheld gaming is, ironically, to not just focus on gaming.

The PSP section of the PlayStation booth at E3 was dominated by potential HDice and music applications for the ultra sleek device.

Sony's handheld will feature 802.11b-WiFi, a USB port for connection to a PC or PS2 console and optional ports which, on the show floor, accepted connections from peripherals like a GPS unit, keyboard, camera, and cell phone attachment.

A firm release date for the PSP has not been set, though PlayStation Canada director of marketing, Matt Lewicki, said Sony is committed to a Japanese launch before the end of its fiscal year in March 2005. A North American release would likely follow a couple of months later.

With only three games on display, and only two of those playable, it is hard to get a complete idea of what the PSP will offer on the gaming side. Metal Gear ADS, while pretty cool 3D, wasn't playable and would be best described as an interactive tech demo — gamers could control the camera viewpoint using the directional buttons while the demo ran.

Similarly, Legends of Drömma, a playable (so an actual) 2D role-playing game, doesn't give an accurate idea of the PSP's potential. Sony's idea for the PSP seems to be to create the 21st century Walkman: a device that is highly fashionable, functional, and so desirable that it becomes ubiquitous.

Game developer Electronic Arts (EA) has committed to at least four titles at launch: Tiger Woods PGA Tour, Need for Speed Underground, NFL Street, and NBA Street. EA president, Ben Mottick, noted that more PSP titles might come out of the EA camp in time for the launch.

Also listed at the PSP portion of the Sony Computer Entertainment

press conference were incarnations of Age of Empires (Ubisoft), Hot Shots Golf, Gran Turismo 4 Mobile, ATX Official Ping, Stephen Filter (Sony Computer Entertainment), and Tony Hawk's Underground 2 (Activision).

## N-Gage G3

Having unveiled the N-Gage G3 before the show, Nokia focused on its upcoming titles in the N-Gage game library to pique the interest of E3 attendees.

The game receiving the biggest push by far from Nokia is its first in-house title, Pathway to Glory. With a heavy focus on multiplayer-over-GPRS in N-Gage Arena, its locally over Bluetooth, Pathway is a Second World War-inspired real-time strategy (RTS) game. Producer Jari Vahva was less than forthcoming with details of how many gamers could play together at once, although original estimates have been as high as 64.

Among the 12 new and soon-to-be-released games in the N-Gage library were Street Racers, Jungle Storm, Crash Nitro Kart, The Sims: Bustin' Out, and Call of Duty.

Nokia also stressed the (almost) always-on availability of its GPRS multiplayer, as opposed to the hot spot dependent Wi-Fi approach Sony and Nintendo are taking to handheld multiplayer gaming.

By Andrew House-Cropper

## Also of note:

<b>Title</b>	<b>E3 update</b>
Hero 2	Playable behind closed doors. Incredible.
Software Call 3	Not playable. No less incredible.
Jedi Omega	Canadian developer. Brilliant mix of FPS and action.
Metal Gear Solid 3	A long time coming.
Street Fever	
Half Life 2	Saw it last year. Can't wait, but we're going to have to straighten things.
Paper Mario 2	Strongest title.
Gran Turismo: Omega 2	Strongest title.
Gran Turismo Sport	Just adding.



Page 3



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# Really Smart Phones

HUB now: V8 phone, PDA + more

Cell phones and PDAs are now necessities for people on the go, so it's only natural that the two technologies be merged. The resulting mobile device is a great find for those who don't want to juggle multiple pieces of hardware but who need to manage voice and text messages and data on the go. This month, we look at a few of the phone/PDA hybrids from Canada's national wireless carriers. (Note: Some are also available through regional carriers including MTN, SaskTel, and Allnet.)

## BlackBerry 7280, 7750

The BlackBerry, from Canada's own Research In Motion, is an ongoing success story with a devoted fan base. The appeal is its unique concept: mobile email and personal information management in a compact package complete with a tiny keyboard. That hasn't changed much since the BlackBerry's debut, but it has been refined with a larger screen and the addition of cell phone capabilities.

The latest BlackBerries have the same basic design but with colour displays — the 7280's screen is smaller than the 7750's. The joy wheel on the side makes it easy to navigate menus, whether you're sending email, making a call, or looking through a contact list. The new models ship with a WAP browser for viewing content available through your wireless provider or for browsing the Web. However, if ones you're viewing aren't optimized for WAP, you'll waste your valuable data transfer quota for pages that may not even be viewable.

With the microphone and speaker embedded right in the handset, making a phone call is easier than the previous second-speaker-only BlackBerries, though the side body still makes calling more awkward than using a cell phone.

Little matter: The new BlackBerry PDA/phone combos are perfect for those who want to stay on top of their email without having to carry a cell phone too.

Special note: Rogers also offers the BlackBerry 7750, which has the same larger screen as the 7750, but uses the UPCS network. It's available starting at \$680 (depending on your subscription).

Selected accessories (7280): car charger \$40, replacement battery \$85.

Selected accessories (7750): replacement battery \$80, car lighter adapter/travel charger \$30.

## palmOne Treo 600



Released in the U.S. last year under the Handspring brand, the Treo 600 is now available in Canada under the palmOne banner. Though a descendant of Handspring's earlier PDA/phone combos, it's apparent that the Treo 600 is a different beast. Previous models used a clamshell design that you had to flip open to get at the PDA. The Treo 600's one-piece design means you can pull it out of your pocket and it's ready to make a call or check email. Like previous Treos, the 600 sports a QWERTY-style thumb keyboard, but this one is even more compact. Sure, it takes a bit of practice, but once you get the hang of two-thumb text entry, you'll be a speed demon — especially compared to people using a cell phone number pad to type a message.

The Treo 600 comes with everything you expect in a Palm-

based handheld — calendar, contacts and more — but adds built-in email and a full Web browser. Better still, it turns phone numbers in email or on Web pages into hotlinks that can be clicked, giving you the choice of phoning the numbers or sending an SMS message to that number. Very slick.

And that isn't enough; it includes a built-in VGA camera. With the fairly low resolution (640x480), you won't win any photo contests, but as with other camera phones, it allows you to send images instantly (and with the keyboard, entering email addresses is easy). It's also capable of sending photos via P45 messaging, though this isn't supported yet on all Canadian wireless networks (at press time, only Telus supported it).

It's also worth noting that the Treo 600 is a quad-band phone, so you can use it in eight areas of the world (but most other phones fit the flashing touch to a phone that has one of the best feature sets going: portable email + full Web browser + phone + camera + the ability to run extensive Palm applications — one heck of a combo).

Selected accessories: USB laptop cable \$40, travel charger with international adapters \$45, belt clip/case \$45, folding key board \$50.

## Nycera 7135 Smartphone

Though the Nycera 7135 Smartphone has been on the market for about a year and a half, it's still (at the time of writing) available from Bell and Telus. It's one of the thinnest clamshell PDA/phones out there, but for a good reason: It flips open to reveal a screen on one side and a full-size Griffin pad on the other, just above the keypad. The angle of the larger display also keeps your face away from the screen, keeping it cleaner. A long pull-out antenna can be used for better reception.

The phone comes with the usual bag of Palm applications and adds Outlook mobile email, a Web browser, MP3 player, photo viewer, and more. The phone comes with a USB sync/charge cradle that will also charge a second battery — a good idea as this device slaves its way through the battery fairly quickly.

It's probably worth noting that new Nycera Smartphone models are undoubtedly coming fairly soon. Stay tuned.

Selected accessories: travel charger \$50, replacement battery \$120, hands-free car kit \$150.

## Sony Ericsson P900

Sony Ericsson created a stir with the P900 and it's hoping for a repeat with this update. Like its predecessor, the P900 comes with a whack of features, including email, Web browsing, media playback (audio and video), a picture viewer, and a built-in VGA

To interpret this phone and available handsets, check the Web site of the cellular provider: [www.bell.ca](http://www.bell.ca), [www.telus.ca](http://www.telus.ca), [www.mtn.ca](http://www.mtn.ca), [www.allnet.ca](http://www.allnet.ca), [www.2610mobility.com](http://www.2610mobility.com), [www.rogers.com](http://www.rogers.com).

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• 2x Serial ports (1x RS-232C, 1x RS-485)

• 3x PCI slots (1x PCI-E, 1x PCI, 1x AGP)

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• 2x Ethernet 10/100Mbps, up to 1000

• 2x Serial ports (1x RS-232C, 1x RS-485)

• 3x PCI slots (1x PCI-E, 1x PCI, 1x AGP)

• 2x SATA ports (1x SATA, 1x SATA II)

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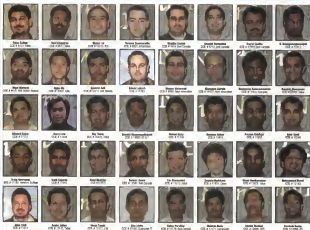
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2:00 pm

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camera that captures photos and video.

As with the P800, the numeric keypad flips down to reveal the extra screen space. The P800 improves the size and resolution, allowing greater space while browsing the Net, but it gives the phone a fairly odd shape (it's thicker at the number pad end, when the pad is closed) and the number pad looks like it could easily break off if you weren't careful. Another oddity repeated from the P800 is the positioning of the "Back" button: instead of putting it alongside the jog dial (an incredibly useful control for navigating the various menus), going "back" means you have to spin the phone around if you have the pad flipped open.

The P800 is rated for an incredible 400 hours (20 days) of standby time. Chances of getting that amount of standby are minimal, however — especially if you actually use its other features. Still, the extra battery life will almost certainly come in handy.

Thanks to the multimedia features and the included games, the P800's quirky design issues don't prevent it from being an awful lot of fun — if only it was just a bit less expensive.

Selected accessories: replacement battery \$45, desktop charger \$25, hands-free car kit \$295, Bluetooth headset \$185 to \$195.

## Audiocore PPC-5050

In the world of handhelds, the big rivalry is between Palm and Pocket PC, so it's a natural that it would fit a factor in the world of phone PDA's. The Audiocore PPC 5050 uses Microsoft's Windows Mobile Phone Edition 2003 (certainly a mouthful), which adds communication features to give it the functionality of a Pocket PC.

This phone will seem incredibly familiar to those who are comfortable in the world of Windows — it is designed to be ultra-compatible with your Windows-based desktop and comes with a USB charge/cable, one that connects to your PC. It has built-in email, a Web browser, and a pocket version of MSN Messenger, as well as multimedia features, such as a picture viewer — a pocket version of Windows Media Player.

For those just getting started in the world of Pocket PC or handhelds, the phone component will take some getting used to, as there is no physical keypad. Instead, it has an oval keypad that appears whenever you launch the phone application. The large screen rests up right next to your cheeks while you're talking, which means you'll have to strain a bit regularly.

Selected accessories: thumb keyboard \$180, car adapter \$40 to \$60.

By Sean Connolly

Comparison table on page 28



Let's face it: the BlackBerry is great for organizing appointments, making calls, and handling email, but a handset with value-talker style capabilities is incredibly appealing — especially if you have to stay in touch with members of a group with any frequency. Enter the BlackBerry T500 with Direct Connect. It has roughly the same design as the BlackBerry T300 but runs on T-Mobile network and sports a Direct Connect button along the top for two-way conversations — in addition to the standard BlackBerry voice and data functions. The more hardware inside means it's slightly thicker and a bit heavier than the T300, plus it has an antenna. It's not as elegant as other BlackBerrys, but that's a small concession for the added two-way voice functionality.

Since Sony loves scruffy old (referred to as PalmOS-based) handhelds in Canada, the Clie has provided fairly strong competition for palmOS's own devices. This is partly due to Sony's emphasis on multimedia and partly to the Japanese company's knack for designs that are at once unfamiliar and comforting to North American eyes.

The Clie P50 (US30) which runs PalmOS, has built-in Bluetooth and 802.11b wireless networking, which makes it an interesting alternative for wireless messaging. You can check email or access the Web using the Clie and a Bluetooth-enabled cell phone or, via the 802.11b if you're in range of a Wi-Fi hotspot — the latter means you won't run down cell phone's battery and you can transfer costs on the phone's data plan. This Clie design makes it even more interesting: it opens up like a notebook to reveal a compact QWERTY keyboard. Spin it around and fold it back down, though, and the keyboard is hidden inside, so it resembles a screen-only handheld.

With a 400,000-pixel resolution, it has one of the most screens around, which is only fitting given its multimedia features, including a built-in photo (540x480) and video (320x240) camera, and MP3 player application which plays tunes from MemoryStick Pro media cards — which are also used to store other multimedia data. It's a beautiful little unit, and while the \$1,000 price tag will undoubtedly send some people fleeing, those who can spare it will love it.

—Sean Connolly

# Digital Photography Tutorial 5

## Working with an image editor, Part 1

Before digital cameras became hugely popular, most digital photographs were prints: negatives, or colour transparencies that were digitized with a scanner. Scanning introduced a lot of steps that had to be corrected so image editing was an essential part of the process. Digital cameras produce pretty decent photographs, so you can send your images directly to a photofinisher or print them on your inkjet printer without ever seeing the inside of image-editing software.

Even so, an image editor can be a great help in improving your photos. What can you do now image with a premium-priced package like Adobe Photoshop (the tool of choice for pros), or even more affordable packages like Photoshop Elements, iPhoto, Paint Shop Pro, and others? It's not an exaggeration to say just about anything you want. This discussion will be a three-part piece: first month, we'll move on to what might be considered the heart of photo correction, the manipulation of tone variables and colour variables. Then the following month, we'll delve into the world of special effects. Right now let's look at some of the general tools geared to the manipulation of photographs. Most of these are available even in modestly priced packages, in fact, we used some of Paint Shop Pro's features as a guide.

**Crop tool.** This allows you to change the photo subtly, by cutting out unwanted elements along the edges of the image, or dramatically, by removing everything but a single element like one person's face. Often the crop tool is interactive: you can draw the basic cropping box, then grab handles on the sides and corners to make it the exact size and shape you want.

**Rotate tool.** The most obvious use is to rotate portrait-oriented photos so they appear right way up on your computer monitor. But you can also rotate by just a small amount — to make the horizon line appear level if you were holding your camera slightly askew when you took the shot, for example.

**Perspective control.** On some image editors you can establish the correct geometry of buildings by making converging lines parallel again or making distorted car wheels straighten up.

**Red-eye reduction.** The built-in flashes on most cameras are, unfortunately, positioned so that they tend to illuminate the blood vessels located at the back of a subject's eyes, creating spooky faces with glowing red eyes. It's such a common problem that most image editors now have a

simplified method of getting rid of it.

**Barrel and pin-cushion correction.** Camera lenses can introduce distortions that give straight lines a slight but noticeable curvature. Barrel distortion shows itself as straight lines bulging outward towards the edge of the frame while in pin-cushion distortion straight lines appear to bend inward toward the center of the image. Some image editors have a special filter just for correcting this kind of error.

**Noise reduction.** Digital cameras creating can introduce spurious electrical signals called digital noise that can star photos. These signals show up as stray pixels of various colours that resemble film grain or they can be primarily of one colour. Red channel noise, for example, is a common error that, as the name suggests, puts in random red pixels where they don't belong. The digital noise reduction filter is sometimes called a despike or median filter.

**JPEG artifact reduction.** JPEG is a compressed file format that is both a blessing and a curse. The blessing is that you are able to save large multi-megapixel images as smaller files. The curse is that image information is permanently discarded in the compression process. That's not usually a problem, but in the compression is applied too aggressively or successive times, artificial details called JPEG artifacts — holes around areas of high contrast, for example — can creep into the image. The JPEG artifact reduction filter is, basically, guesswork since the software can't know what the original scene looked like, so it's not always perfect.

By David Siroka

## Remembering the photography in digital photography

Most of the fundamentals of photography don't change just because you've moved from filmworks to pixels. That means sources for inspiration and knowledge can be found beyond the digital realm. For example, I have a number of old books on lighting, cleanup photography, photojournalism and other topics. There's no reason of digital is there but the information they contain is still sound. If you don't want to add dusty old books to your shelves, try the public library. Photography has been a major hobby for decades so most libraries have a good collection of titles.

Red-eye reduction, in Adobe Photoshop 5.0, is an example of built-in image editing.



## **Notice of Settlement Approval Hearing**

# **IN THE MATTER OF FUJITSU HARD DRIVE CLASS ACTION LITIGATION**

### **WHAT IS THE PURPOSE OF THIS NOTICE?**

An agreement has been reached in class proceeding lawsuits initiated in Ontario and Quebec against Fujitsu Canada, Inc. and Fujitsu Limited (the "Defendants") relating to allegedly defective hard drives known as MPF3333AH hard disk drives and/or MPG3333AH hard disk drives, including models bearing a model number composed of or starting with the sequence MPF3162AH, MPF3163AH, MPF3204AH, MPG3102, MPG3153, MPG3204, MPG3307, and MPG3409 (any one of which may also be followed by alphabetical characters) (collectively the "Drives"). The agreement which is subject to court approval in Ontario and Quebec, covers claims by all persons or entities in Canada who purchased and used in Canada one or more of the Drives or a personal computer or other system containing one or more of the Drives, for their own use and not for resale ("Proposed Class Members"). While the Defendants do not admit liability, they are prepared to offer compensation to the Proposed Class Members, subject to court approval of the settlement agreement. The Plaintiffs in the class actions allege that the hard disk drives contain defective chips and fail at an unacceptably high rate.

### **DO I HAVE ONE OF THESE FUJITSU DRIVES?**

There are a number of ways that you may be able to determine if you have or had one of the Drives in issue. If you have any questions regarding any of these methods, please call Class Counsel at 1-800-461-6186 at extension #385 or by email at:

[vicky.theodos@baskind.com](mailto:vicky.theodos@baskind.com)

**Downloadable Utility.** You can download a free utility that may assist you in determining if the hard disk drive in your computer is one of the models at issue at the following website: [www.hddsettlement.ca](http://www.hddsettlement.ca). The utility requires that your computer system use a Microsoft Windows operating system. You should follow the instructions described in the "read me" file of the utility.

**Physical Inspection.** You may be able to physically check to see if you have an affected Drive. However, before doing so, you should back-up and save any important data on the hard disk, not from any programs you are operating on your computer, shut down your computer and unplug the power source. **Please ensure that you understand how to conduct this check without causing any harm to yourself, the hard disk drive, or any computer or other device containing the hard disk drive.**

**Review Documents.** The documents that accompanied your computer system or hard disk drive may disclose if you have a Drive.

**Contact Seller or Computer Professional.** The seller from whom you purchased the hard disk drive (as a separate item or as a component in a computer or other system) or another computer professional may be able to assist you in determining whether you have one of the Drives in issue.

### **WHAT ARE THE SETTLEMENT BENEFITS?**

If the settlement is approved by the courts, Proposed Class Members may be entitled to receive the following compensation:

For those with a Drive bearing Model No. MPF3162AH, MPG3163AH, MPF3204AH and/or MPG3333AH:

Up to \$27.90 per Drive, upon returning their Fujitsu Drive(s) and submitting acceptable proof of payment of a replacement drive(s).

For those with a Drive bearing Model No. MPF3204AH, MPG3204AH, MPG3307 and/or MPG3409:

Up to \$32.90 per Drive, upon returning their Fujitsu Drive(s) and submitting acceptable proof of payment of a replacement drive(s).

For those who incurred data recovery costs associated with a Drive failure:

Up to \$500 per Drive, upon returning their Fujitsu Drive(s) (if available) and submitting acceptable proof that data recovery costs have been incurred (e.g., an invoice from a data recovery service).

### **Warranty Protection**

Class Members should note that Fujitsu hard drives sold by Fujitsu Canada may still be covered by a warranty under which alternative relief may be available for Drives that have failed. The period for filing warranty claims is limited. Class Members should see the Fujitsu Canada web site at [www.fujitsu.ca/warranty.html](http://www.fujitsu.ca/warranty.html) for the specific terms of the warranty.

### **SETTLEMENT APPROVAL HEARING**

A settlement approval hearing will take place on June 24, 2004, at the Ontario Superior Court at Justice, 80 Dundas Street, London, Ontario, Canada, at 10:00 a.m. Proposed Class Members who do not oppose the settlement do not need to appear at the hearing or do anything else to indicate their desire to participate in the settlement. However, Proposed Class Members who object to or wish to oppose the settlement may attend the hearing, personally or through their legal counsel, or may send their objections in writing to counsel at the following address: Baskin, Cromarty, Ivy & Dowler<sup>1/2</sup>, Barristers & Solicitors, 680 Waterloo Street, London, Ontario N6A 2Y6, or via e-mail at [vicky.theodos@baskind.com](mailto:vicky.theodos@baskind.com). Please note that any written objection should include the following information: (a) a statement that you are a Proposed Class Member; (b) your name, address, telephone number and email address (if available); (c) the serial number of your Fujitsu Drive(s); (d) the basis for your objection to the proposed settlement; (e) whether you intend to appear at the June 24, 2004 hearing, personally or through legal counsel; and (f) the name, address, telephone number and email address of your legal counsel (if applicable).

### **THE EFFECT OF A SETTLEMENT**

If the settlement agreement is approved, Proposed Class Members will have the right to opt-out of the settlement and preserve their legal rights against the Defendants. However, doing so will mean that they are not eligible for any settlement benefits. Any Proposed Class Member who does not opt-out will be bound by the settlement agreement and will be barred from advancing claims against the Defendants and certain others relating to their Drive(s).

### **QUESTIONS ABOUT THE SETTLEMENT**

If you have any questions regarding this matter, please contact class counsel at Baskin, Cromarty, Ivy & Dowler<sup>1/2</sup>, Barristers & Solicitors, 680 Waterloo Street, London, Ontario N6A 2Y6, 1-800-461-6186, extension #385, or via e-mail at [vicky.theodos@baskind.com](mailto:vicky.theodos@baskind.com). A complete copy of the proposed settlement agreement will be available on Class Counsel's website at [www.classaction.ca](http://www.classaction.ca). Do not contact the court, as it will be unable to answer your questions.

If there is any conflict between the settlement agreement and this notice, the settlement agreement will prevail.

## Caller IT

With more VoIP options, is it time to hang up on landline phones and services?

Several years ago, someone suggested to me that we would soon all have a phone number that we could carry with us for life, which would not be tied to our physical location and therefore would never need to change. Well, we're not there yet. But the newest phone services to hit the market are bringing us one step closer.

Voice over Internet Protocol (VoIP) isn't really that new in fact; several popular instant messaging programs offered voice chat years ago. I tried voice chatting over Yahoo Messenger shortly after the option was introduced, and quickly gave up. There were problems — delays, line noise, interruptions in the connection — and, of course, the chatters needed to both be at a powered, connected computer at the same time.

More recently, however, better hardware and software have improved the quality of connections and vocal quality, and new services recently available in Canada promise a VoIP future in which you won't have to sit at home waiting for the phone to ring. Maybe VoIP has finally arrived.

There are two systems people refer to as VoIP which use the same technology but with some key differences. The first system involves users connecting from one computer to another with no use of the regular landline telephone system (unless you're using a dial-up Internet service). This is often referred to as peer-to-peer (P2P) line of key players in this arena is Skype ([www.skype.com](http://www.skype.com)), offered by the founders of KaZaA, the popular P2P file sharing software. Skype is free software that works with a PC headset (like those used for gaming or speech recognition) or headset to make calls to other Skype users. StreamCast ([www.streamcastnetworks.com](http://www.streamcastnetworks.com)), the company behind Morphix P2P software, has also recently launched voice services, integrating them in the most recent version of Morphix.

The second system eliminates VoIP services that provide access to the Public Switched Telephone Network (PSTN), using an Internet-connected phone to connect with any other phone by dialing a regular phone number, whether the call recipient uses it, a regular phone line, or a cellular phone. Services that do this have only recently launched in Canada, led by Penrus' [tollfree4all.ca](http://tollfree4all.ca) ([www.penrus.ca](http://www.penrus.ca)) service earlier this year.

April was a busy month for VoIP providers, with three companies announcing plans to join Penrus in the race to sign Canadians up for the new service. Usage ([www.usage.ca](http://www.usage.ca)), which has provided VoIP calling in the U.S. since 2002, launched its Canadian service in the middle

of the month. Navgate ([www.navgate.ca](http://www.navgate.ca)), a taskNet company, debuted its WebCall service in April, offering numbers for seven states in Western Canada, with more to be rolled out soon. In addition, Tel Communications ([www.tel.ca](http://www.tel.ca)) announced VoIP service, which is currently being tested and is expected to launch in September.

VoIP can be cheaper to use than a regular phone line, especially for those who do a lot of long distance calling. P2P services such as Skype and iKallMe (see sidebar) offer free calling between users of their own services. Penrus' [tollfree4all.ca](http://tollfree4all.ca) offers international long distance rates as low as 2.5 cents per minute to several countries, including Hong Kong, China, and the U.K. In addition, many add-on features that regular phone customers pay extra for, such as voicemail and caller ID, are included in mid-range or sometimes even in basic packages offered by VoIP service providers. Prices for packages range from \$15.95 to \$49.95 per month, depending on the included calling features and minutes of local and long-distance calling. These packages vary between companies, so it's worth thinking







about which features you're most likely to find useful and comparing packages closely to find the best fit. Keep in mind that, while VoIP services will work with a dial-up Internet connection, the PSTN add-on services require broadband, which can add to the cost if you don't already use it.

A VoIP line can also do things your old phone simply cannot. Want to live in Calgary but keep a Toronto-area code to stay in touch with friends and family? No problem. Want to take your home phone with you when you travel, so people can reach you wherever you are? Completely possible, if you have access to a broadband connection.

There are, however, some things to keep in mind if you're considering making the leap to VoIP. While I was researching this article, my cable Internet connection failed for an hour. If all I had then was a VoIP phone, I would have been cut off from e-mail, Internet, phone, and TV all at once. Unlike your landline, an Internet-connected phone will only work as long as your power and Internet service do, so if the power goes out, your phone goes with it. Some VoIP services deal with this by offering to forward calls to a PSTN line of service to the VoIP line goes down, but that means users still need an alternate line, reducing the cost advantage.

Of equal concern is that not all VoIP service providers offer 911 emergency service. Because a VoIP line is not limited to a single geographic location, a 911 operator would not be able to automatically locate callers. Some VoIP providers are working to remedy this situation and offer 911 calling to at least some areas, but they point out that if you are using your phone away from home, you will need to use a PSTN line to call 911. Other providers are clear in disclosing their service as a good option for a second line, rather than as a replacement for a regular phone.

Then there's the Canadian Radio-television and Telecommunications Commission (CRTC), which has yet to decide how VoIP services will or will not be regulated. Responding to a request from established phone service providers, the CRTC has opened a review of VoIP services and published a preliminary opinion in April that VoIP services that offer access to the PSTN and use regular telephone numbers are not substantially different from regular telephone service providers and should be subject to the same regulatory controls.

This could mean that VoIP providers may eventually be required to adhere to regulated public utilities rules and provide services local exchange carriers are obligated to provide, including 911 service and message relay service for the hard of hearing.

At this point, the CRTC appears to only be interested in VoIP services that provide telephone ser-



## Taichi and U&Me

Teach 3, Teach 4

Internet: [www.uptel.com](http://www.uptel.com)

Estimated price: \$189.95 (Teach 3 Plus), \$209.95 (Teach 4 Plus)

Since I hadn't tried using VoIP equipment or service before, I wasn't quite sure what to expect when I opened the box and started setting these devices up. Installing the hardware was deemed simple enough (but how would I connect to anyone? I hadn't have worried. This is an end-to-end solution — both the hardware and the necessary software are included).

The Teach 3 is a handset that resembles a cellular phone and plugs into your PC's USB port. The Teach 4 also connects to the USB port, but also jettison into which users plug a regular analogue phone. It also has a line out to connect to a regular telephone jack, allowing users to forward incoming calls to a regular landline or cell phone.

Installation was easy — the company says you can do it if you've ever set up a printer or a digital camera, and that's not stretching the truth. The software and the most current drivers are on the Web site ([www.uptel.com](http://www.uptel.com)), and I suggest going straight there to download them rather than loading the software off the CD and possibly requiring an update.

It works a little like an instant messaging program with phones at both ends—your device has a number assigned to it, which becomes your phone number, and when you hook it up and load the software, you are available to call through the server. It uses the included U&Me software and service, so your standard call recipient needs a Teach 3 hooked on the other end. It's a VoIP system designed to operate computer to computer, although Uptel now offers a prepaid phone card that will allow calls to regular phones.

In using the Teach 4, I found the voice quality was clear, but I heard an annoying echo of everything I said, which was also evident on the Teach 3 handset. The quality of the line varied, with a lot of line noise in the first call that was not there in a later call, and the better quality line also seemed have less echo. I was connecting from home on a broadband connection protected by a hardware firewall, which didn't seem to be a problem. My potential calling partners, however, did have trouble with setting up and connecting from behind more complex office firewalls — one of them couldn't connect at all. The Uptel Web site offers instructions for configuring firewalls, but if you're not in a position to be able to change your firewall settings, this may not be the best option for you.

*Notice: Teach handsets (model) are slightly different than models currently available from distributor Rocky Pacific. Prices listed are for available models.*

Continued from page 6

What do you get the computer user who already has every gadget-ette? A squid, of course. The Squid Light ([www.squidlight.com](http://www.squidlight.com)) is a portable light with LEDs at the end of each of its three flexible arms. The lights—which have two brightness settings—aren't super bright, but do give that extra dash of springiness when necessary, and provide fairly good illumination close up as is usual in rooms. The Squid Light is powered by three AAA batteries, which provide up to 20 hours in bright mode, or 570 hours on low. It's also water resistant (fitting for a squid), which means it's the perfect accessory for the type person who tends to spill their coffee mug while reaching for the stapler. It's available for \$40 from the Squid Light site.



Squid Light



It's a bird! It's a plane! No, it's a superhero for the digital age! Geek Man from Toronto's Happy Worker ([www.happyworker.com](http://www.happyworker.com)) is the first in the company's planned series of Everyday Superheroes. The 1.5 cm tall, plastic Geek Man wears street clothes and comes with a set of accessories to help him rule the world of bad data: a laptop that opens a PDA that magnetically attaches to his belt, a coffee mug, wristwatch, and a pair of shoes. Geek Man's hit points are at the hips, shoulders, elbows, head, and knees; he can also be posed. Geek Man has a suggested price of \$29.99 and is just starting to hit mail outlets.

Geek Man

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## At your service:

Though we're only listed at hardware available from Bell, Fido, Rogers, Telus, some of the same hardware are available from wireless service providers that have lots of a national profile, including MTI, SaseTel and Allnet.

## Smart phones: the specs

	BlackBerry TORO	BlackBerry TORO	PalmOne ONE	Symbian OS9 Smartphone	Sony Ericsson P990	Android R1 ONE
Provider	Rogers	Bell, Telus	Rogers	Bell, Telus	Fido	Bell
Network	CDMA 1X	CDMA 1X	CDMA/UMTS	CDMA 1X	UMTS/GPRS	CDMA 1X
Speed (Mbps)	800/1000/ 1500	800/1500	800/1400/ 1800/1900	800/1900/ analogue	800/1900/ 1900	800/1500
Operating system	BlackBerry Java	BlackBerry Java	PalmOS S 2.1H	PalmOS 4.1	Symbian 7.0	Win Mobile Phone Edition 6.0.0.1
Screen size	16 MB	16 MB	32 MB	16 MB	NA*	64 MB
Screen resolution	240x160	240x160	160x160	240x160	240x160	240x160
Input method	keyboard	keyboard	keyboard, stylus	stylus	stylus	stylus
Stand-by time	4 hr	3.3 hr	8 hr	3.5 hr	18 hr	4 hr
Talk time	240 hr	198 hr	240 hr	160 hr	490 hr	140 hr
Weight (g)	138	142	159	167	150	181
Dimensions (mm)	113x74x21	121x77x21.8	111x65x21.2	101x65x21	111x52x23.4	130x74x21.9
Memory card slot	none	none	SD/MMC	SD/MMC	MS Duo	SD/MMC
Self clip	yes	yes	optional	yes	yes	yes
Removable battery	yes	yes	no	yes	yes	no
Estimated price range*	\$550-\$650	\$450-\$550	\$550-\$650	\$540-\$750	\$550-\$650	\$540

\*Uses removable memory (MemoryStick Duo comes with 50 MB card)

\*\*Depends on length of contract, with wireless service providers



## PRESENTS ITS Bi-Monthly PHOTO SPREE

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### LEXMARK E2550 ALL-IN-ONE

The all-new Lexmark E2550 All-in-One combines photo-quality printing, high-resolution scanning and colour copying in one compact device. Designed for Windows and Mac users, the E2550 offers borderless and six-colour photo printing capabilities, the fastest colour print speeds in its class, a 48-leaf feeder colour scanner, and one-touch photo copying – perfect for all your creative digital imaging needs.

LEXMARK



**THE RULES:** The contest runs a digital contest to explore the subject. Work can be submitted via email ([contest@hubcanada.com](mailto:contest@hubcanada.com)). Participants' photos should be in the native file format of the camera you used, the names of any software you used to modify the image not, if possible, the steps and whether you used to take the photo.

Submit your photographs, along with the information from the form below, by June 15th, 2004. The total submit up to three photographs. All entries must be accompanied by a submission form. Entries must be submitted by email. They should be no larger than 5MB in size and no smaller than 200 KB. Two photos per email.

**Submission Rules:** Entries must be closed by July 15th, 2004. Winners must provide valid identification upon claiming prize. The prize awarded are not transferable and cannot be redeemed for cash. Its entry and to be eligible to win, persons must be residents of Canada, and not employees or be associated with an employee of HUB Media, its affiliates companies, or advertising or promotional agencies. The winners will be selected by HUB on June 11, 2004 from among all eligible entries received as per before contest close date. Winners will be contacted by telephone or email. In the event that participants do not submit within the first week following the contest, winner selection will be delayed. All entries become the property of HUB and may be used in subsequent advertisements for the contest. All entries must be submitted by email and must be original work.

HUB's Photo Spree contest form. All submissions must contain this information. Send to [contest@hubcanada.com](mailto:contest@hubcanada.com)

Deadline: June 11, 2004

Name: \_\_\_\_\_

Address: \_\_\_\_\_

E-Mail: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Age: \_\_\_\_\_

Occupation/School: \_\_\_\_\_

Site of Entry: \_\_\_\_\_

Camera Used: \_\_\_\_\_

Software Used: \_\_\_\_\_

# 8 MP redux

Sony's Cyber-shot aims higher

In the May issue, iFWD looked at some of the new 8-MP digital cameras. We weren't able to get our hands on Sony's new Cyber-shot DSC-F828 in time for the roundup, which is a pity because it is one sweet little camera.

OK, it's not actually "little" in a glance: the F828 appears to be at least, with a 7X hand-cranked optical zoom, the heaviest of the 8-megapixel cameras already quite long. Because the entire lens is on a swivel mount and not built into the main camera body, it appears that much longer.

The 90-degree swivel mount is one of the camera's nicest features, though, allowing you to hold the camera low while still pointing the LCD viewfinder up towards your eye. (For stability, Sony has placed the tripod mount on the underside of the lens instead of on the body. This also gives you a better vantage point if you're using a tripod and the camera ends at a natural eye level — just tilt the body up or down to compensate.)

Like the other 8-MP cameras we reviewed in May, this Cyber-shot gives you great manual control over your image taking. A silver wheel along the top allows you to switch modes, including auto, full manual, and either aperture- or shutter-priority modes, as well as a 640x480 pixel video mode. A switch on the lens puts the camera into Manual Focus mode, and there is a manual focus ring right behind the zoom ring. It's worth mentioning again that the zoom ring is hand-cranked, which gives you full manual control over your zoom — no waiting for a motor!

Also like most of the new 8-MP cameras, the F828 doesn't come with a memory card, so you have to budget a bit extra for one. The great news is that it takes both MemoryStick Pro and CompactFlash media cards. A switch on the back of the camera allows you to quickly swap between the two — so you can load your camera up with both types of memory cards and switch to the second card once you've filled up the first.

Overall, the camera is beautifully designed and a pleasure to use. It's one of those rare pieces of technology that just feels good in the hand.

Best of all, with a suggested retail price of only \$1,400 — the same suggested price as the other 8-MP cameras we reviewed — it breaks with Sony's tradition of premium pricing.

By Sean Conithans

Sony Cyber-shot DSC-F828  
www.sonystyle.ca  
Estimated price: \$1,400



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